Notice of Allowability	Application No.	pplication No. Applicant(s)	
	10/725,710	XU ET AL.	
	Examiner	Art Unit	
	Jerry A. Lorengo	1734	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED ir or other appropriate commu GHTS. This application is s	n this application. If not included unication will be mailed in due cours	e. THIS ne initiative
1. This communication is responsive to			,
2. The allowed claim(s) is/are <u>16-18</u> .		•	
3. The drawings filed on are accepted by the Examiner			
 4. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicatio	n No	om the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" o noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.		
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives 	ted. Note the attached EXA s reason(s) why the oath or	MINER'S AMENDMENT or NOTICE declaration is deficient.	E OF
6. CORRECTED DRAWINGS (as "replacement sheets") must			
(a) Including changes required by the Notice of Draftsperso	n's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the header according to 37 CFF	e drawings in the front (not the back)	of
 DEPOSIT OF and/or INFORMATION about the deposition attached Examiner's comment regarding REQUIREMENT For attached Examiner REQUIREMENT FOR attached FOR A	it of BIOLOGICAL MATE OR THE DEPOSIT OF BIO	RIAL must be submitted. Note th LOGICAL MATERIAL.	e
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	F Notice of Inf	numan I Daharah Arralia atian (DTO 450)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Su	ormal Patent Application (PTO-152) mmary (PTO-413)	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08)	Paper No./N	Mail Date mendment/Comment	
Paper No./Mail Date 1. ☐ Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance	
of Biological Material	9. ☐ Other		
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DETAILED ACTION

(1)

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-15, drawn to an ink-jet printable heat-transfer medium, classified in class 428, subclass 195.1.
- II. Claims 16-18, drawn to a method for applying an image to a fabric material, classified in class 156, subclass 230.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed cane be used in a materially different process of using that product wherein the product is applied to substrate other than fabric or wherein the heat-transfer medium is imaged by way of a non-inkjet printing method and applied under heat and pressure to a target substrate wherein heat is applied through the substrate material, rather than through the heat-transfer medium.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter as shown by their different classification, restriction for examination purposes as indicated is proper. During a telephone conversation with Mr. Daniel Sullivan on December 8, 2004 a provisional election was made without traverse to prosecute the invention of Group II, claims 16-18. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-15 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

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application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

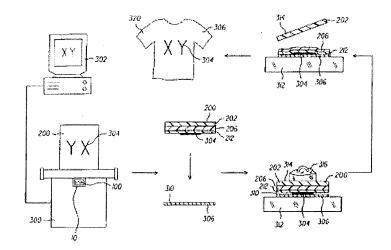
(2)

Allowable Subject Matter

Claims 16-18 have been found to be allowable over the prior art of record.

The following is an examiner's statement of reasons for allowance:

Methods for the formation and application of an image to a fabric material via transfer, such as taught by U.S. Patent Nos. 6,723,773 to Williams et al.; 6,703,086 to Kronzer et al.; 6,071,368 to Boyd et al.; 5,488,907 to Xu et al.; 5,733,398 to Cahill et al.; and 4,758,952 to Harris, Jr. et al., are known in the art. Boyd et al., for example, disclose one such method specifically drawn to ink-jet printing comprising the steps of: Providing an ink-jet printable heat-transfer medium, itself comprising a carrier sheet, a hot-melt layer comprising a thermoplastic layer adapted to bond the transferable portion to the substrate, and an ink-jet receptive printing layer; printing an ink-jet image on the ink-jet receptive layer of the transfer sheet; placing the printed transfer sheet in contact with a substrate, such as a T-shirt; applying heat and pressure to the carrier sheet to bond the hot-melt and printed ink-jet receptive layers to the T-shirt; and stripping the carrier sheet away from the transferred printed image on the fabric. The method of Boyd et al. is illustrated below:



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It is also generally known to utilize amide resins and polymers in the formation of ink receptive coatings, such as taught by U.S. Patent Nos. 5,478,631 to Kawano et al. and 5,418,078 to Desie et al.

None of the prior art of record, however, specifically teaches or suggests a method for the formation and application of ink-jet printed images via transfer to a fabric substrate, as set forth in applicant claim 16, wherein the ink-jet receptive coating, overlying a hot-melt layer, comprises: non-polymeric organic particles that are a reaction product of a diamine and two molecules, each molecule having at least one carboxylic acid group and at least five carbon atoms; thermoplastic polymer particles; and a thermoplastic film-forming binder having a melting point in the range of about 60 to 180°C.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

(3)

Election/Restrictions

This application is in condition for allowance except for the presence of claims 1-15 to an invention non-elected without traverse. Accordingly, claims 1-15 have been cancelled as set forth in section (4), below.

(4)

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claims 1-15, drawn to an invention non-elected without traverse, have been cancelled.

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(5)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry A. Lorengo whose telephone number is (571) 272-1233. The examiner can normally be reached on Monday through Friday, 8:30 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Fiorilla c an be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. Lorengo, Primary Examiner

AU 1734

December 8, 20